

SOCIETY FOR EXPERIMENTAL BIOLOGY PRESENTS:

2021 ANNUAL CONFERENCE

ONLINE

29 JUNE - 8 JULY 2021

SEBIOLOGY.ORG

#SEBCONFERENCE



ABSTRACT SUBMISSION DEADLINE : 22 MARCH 2021

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SESSION TOPICS WILL INCLUDE:

ANIMAL BIOLOGY SESSIONS

ECOIMMUNOLOGY

- Parasites, disease and host immunity: Towards a mechanistic understanding of infection-induced phenotypes
- Ecoimmunology in a changing world: challenges and progress

ENVIRONMENTAL FLUCTUATION

- Aquatic ectotherms in fluctuating environments - The Ins and Outs of the Ups and Downs: Respiration and Osmoregulation in fluctuating environments
- Physiological and ecological responses to temperature fluctuation
- Cocktails or mocktails? Synergistic and antagonistic effects in mixed stress scenarios
- Osmotic and acid/base regulation at thermal extremes
- Metabolism, ion and pH homeostasis in aquatic invertebrates: Towards a mechanistic understanding underlying life in changing and extreme environments

- Neurotransmitters, hormones and pheromones: controlling and signalling physiological and behavioural responses to environmental change

BIG DATA

- Automated animal tracking in behavioural studies
- Putting animal biology in ecological context with advances in animal tracking and bio-logging

OTHER ANIMAL BIOLOGY SESSIONS

- Open Biomechanics
- Open Animal Biology
- Field Physiology: Beyond biotelemetry, new and old technologies, and the ins and outs of monitoring physiological responses of organisms in remote locations
- Fish growth and environmental effects

PLANT BIOLOGY SESSIONS

- Challenges and opportunities in Cannabis research
- Retrograde signalling as a component of environmental sensing
- Plant Phenotyping
- Biogenic volatile organic compounds: mediators of inter-organismic interactions
- Exploiting the natural genetic variation in photosynthesis and CO₂ assimilation
- Future crops for changing & sustainable environments
- Ambient Temperature Signalling and Response
- Radial signalling and transport in plant roots

CELL BIOLOGY SESSIONS

- Dynamic organization of the nucleus across kingdoms' Nuclear Dynamics SIG
- Cellular function and nuclear dynamics in plant reproduction

SCIENCE ACROSS BOUNDARIES SESSIONS

ENVIRONMENTAL FLUCTUATION (ANIMAL AND CELL BIOLOGY)

- Do environmental contaminants alter energy balance, how can we find out and how much does it matter?
- The physiology behind phenotypic plasticity in rapidly changing environments

BIG DATA

(ANIMAL, PLANT, CELL BIOLOGY & OED)

- Open electronics in experimental biology
- Technology Enabled Approaches to Ecophysiology

PLANT AND CELL BIOLOGY

- General cell and Plant Biology
- Cellular aspects of plant hormone action

OUTREACH, EDUCATION AND DIVERSITY

- Career Workshop - Sense about Science
- Careers and Coffee